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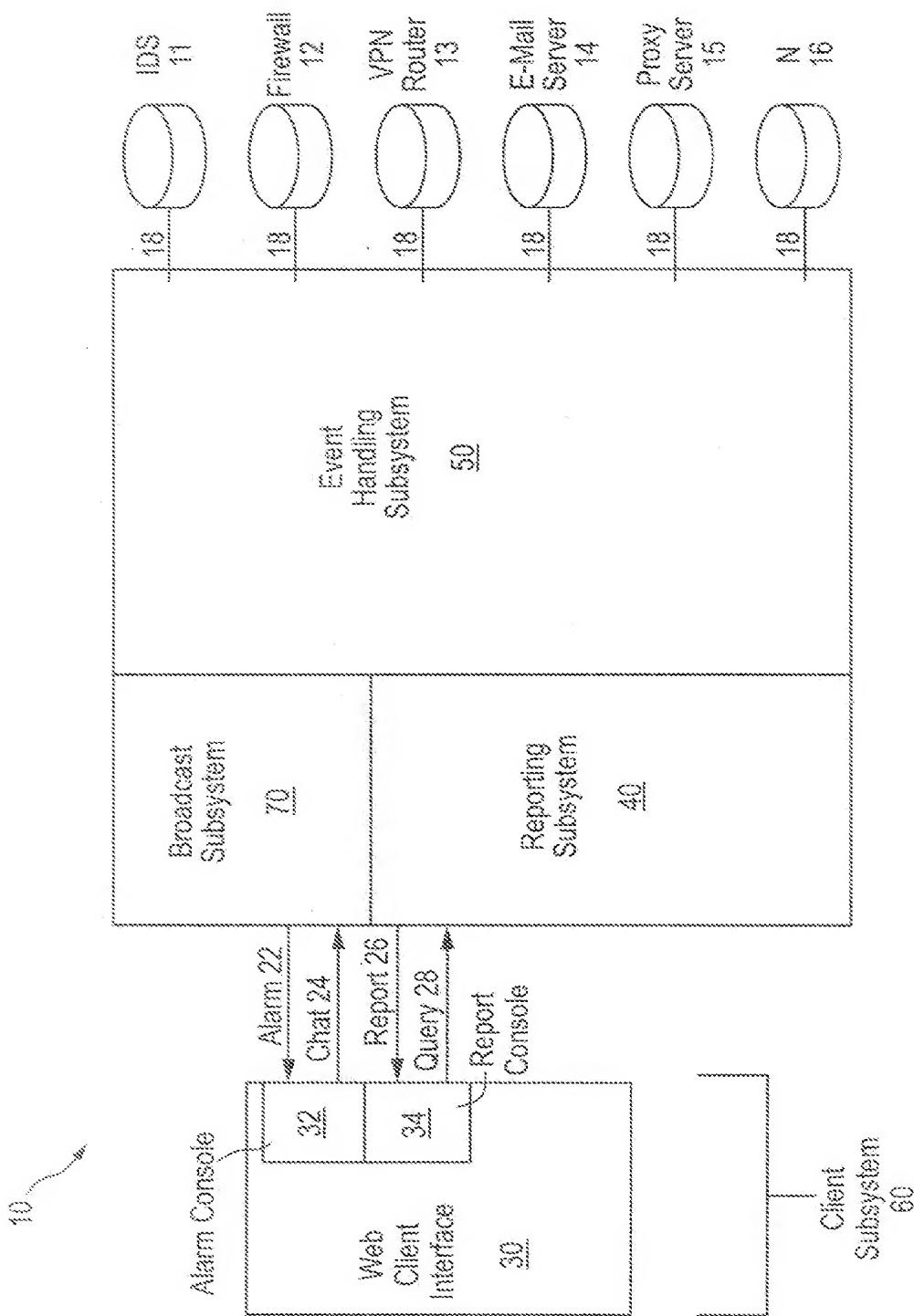


Fig. 1

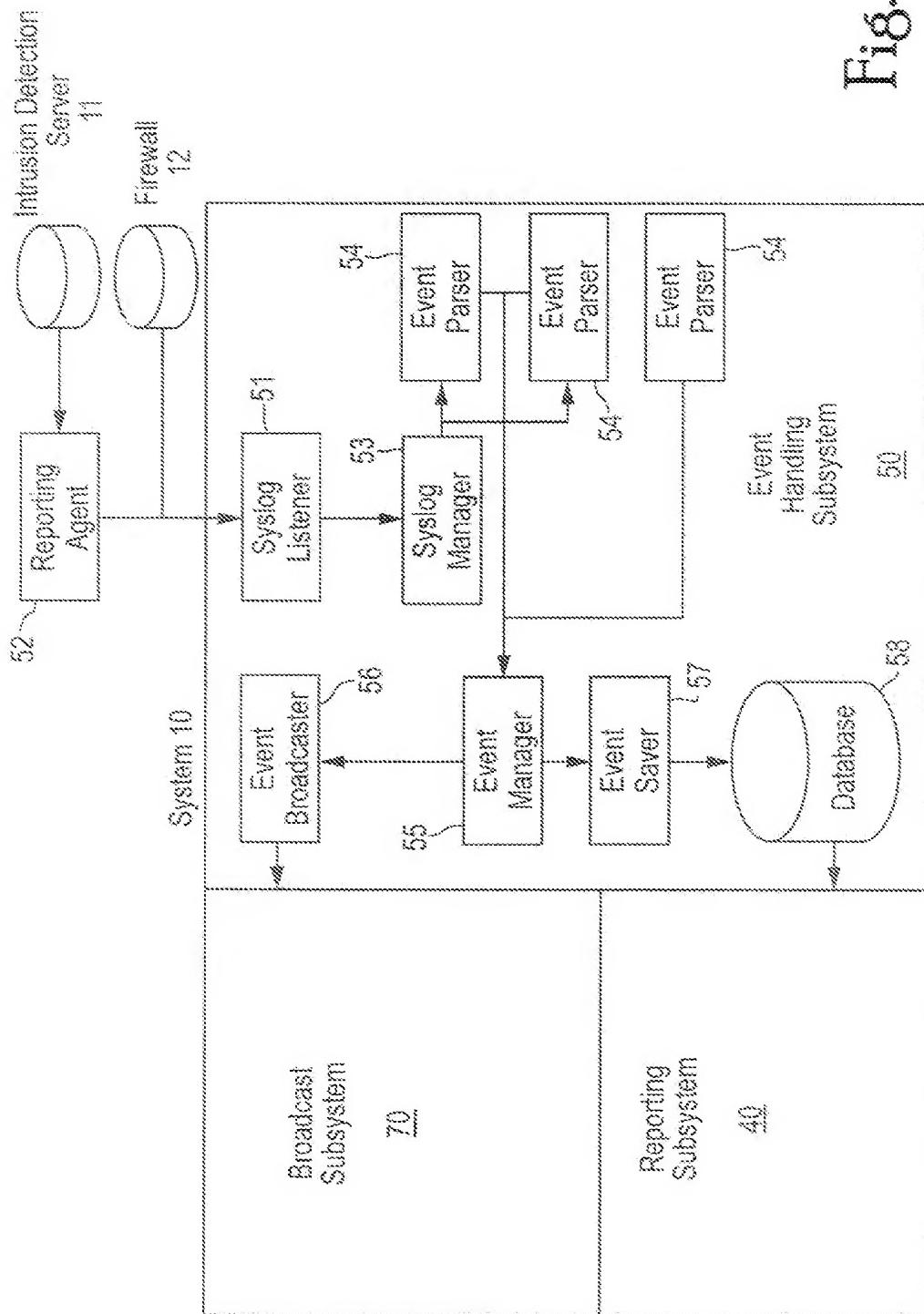


Fig. 2

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Alert Messages, Severity 1

The following messages appear at severity 1, alerts:

%PIX-1-101001: (Primary) failover cable OK.
%PIX-1-101002: (Primary) Bad failover cable.
%PIX-1-101003: (Primary) failover cable not connected (this unit).
%PIX-1-101004: (Primary) failover cable not connected (other unit).
%PIX-1-101005: (Primary) Error reading failover cable status.
%PIX-1-102001: (Primary) Power failure/System reload other side.
%PIX-1-103001: (Primary) No response from other firewall.
%PIX-1-103002: (Primary) Other firewall network interface chars OK
%PIX-1-103003: (Primary) Other firewall network interface chars failed.
%PIX-1-103004: (Primary) Other firewall reports this firewall failed.
%PIX-1-103005: (Primary) Other firewall reporting failure.
%PIX-1-104001: Secondary: Switching to ACTIVE (cause: chars).
%PIX-1-104002: (Primary) Switching to STNDBY.
%PIX-1-104003: (Primary) Switching to FAILBD.
%PIX-1-104004: (Primary) Switching to OK.
%PIX-1-105001: Disabling failover.
%PIX-1-105002: Enabling failover.
%PIX-1-105003: Monitoring on interface dec waiting.
%PIX-1-105004: Monitoring on interface dec normal.
%PIX-1-105005: Lost failover communications with mate on interface dec.
%PIX-1-105006: Link status 'Up' on interface dec.
%PIX-1-105007: Link status 'Down' on interface dec.
%PIX-1-105008: Testing interface dec.
%PIX-1-105009: Testing interface dec chars.
%PIX-1-105020: (chars) incomplete/slow config replication
%PIX-1-106001: Built TCP connection for faddr IP_addr/ port gaddr IP_addr/ port laddr IP_addr/ port (chars)
%PIX-1-709003: (chars) Beginning configuration replication: Send to mate.
%PIX-1-709004: (chars) End Configuration Replication (ACT)
%PIX-1-709005: (chars) Beginning configuration replication: Receiving from mate.

Critical Messages, Severity 2

The following messages appear at severity 2, critical:

%PIX-2-106001: Inbound TCP connection denied from IP_addr/port to IP_addr/ port flags chars
%PIX-2-106002: TCP Connection denied by outbound list dec src IP_addr/port dest IP_addr/port
%PIX-2-106003: Connection denied src IP_addr dest IP_addr due to JAVA Applet.
%PIX-2-106006: Deny inbound UDP from IP_addr/port to IP_addr/ port
%PIX-2-106007: Deny inbound UDP from IP_addr/ port to IP_addr/port due to DNS query/response.
%PIX-2-106008: Translation for IP_addr denied by outbound dec
%PIX-2-106009: Translation for IP_addr to IP_addr denied by outbound dec
%PIX-2-106012: Deny IP from IP_addr to IP_addr, IP options hex.
%PIX-2-106013: Dropping echo request from IP_addr to PAT address IP_Addr
%PIX-2-106014: Deny inbound icmp src interface name: IP_addr dst interface name: IP_addr (type dec, code dec)
%PIX-2-106015: Deny FCP (no connection) from IP_addr/port to IP_addr/ port flags.
%PIX-2-106016: Deny IP spec'd from IP_addr to IP_addr, IP options hex.
%PIX-2-106017: Packet contains ActiveX content and has been modified src IP_addr dest to IP_addr, IP options hex.
%PIX-2-108001: SMTP made noq: out chars in chars data: chars
%PIX-2-108002: SMTP replaced chars: out chars in chars data: chars
%PIX-2-109009: Authorization denied from IP_addr/port to IP_addr/port (not authenticated)
%PIX-2-109011: Authen Session Start: user 'user', sid session_num
%PIX-3-110003: No interface is configurational (with chars).
%PIX-2-112001: (charxdec) PIX clear finished.
%PIX-2-119004: PIX clear config char from char.
%PIX-2-201003: Embryonic limit exceeded dec/dec for IP_saddr/port (IP_saddr)IP_saddr/ port
%PIX-2-304006: URL Server went OFFLINE

Fig. 3a

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Error Messages, Severity 3

The following messages appear at severity 3, errors:

%PIX-3-105010: host failover message block alloc failed
%PIX-3-105010: Deny inbound from outside:IP_addr to inside:IP_addr chars.
%PIX-3-109010: Auth from IP_addr/port to IP_addr/port failed (too many pending auths)
%PIX-3-109013: User must authenticate before using this service
%PIX-3-110002: No ARP for host IP_addr
%PIX-3-201001: Out of connectional dec/dec.
%PIX-3-201002: Too many connections on static IP_addr
%PIX-3-201003: FTP data connection failed for IP_addr.
%PIX-3-201006: RCMD back connection failed for IP_addr/port.
%PIX-3-201007: Unable to allocate new UDP connections (IP_addr/port:IP_addr/port)
%PIX-3-201008: The PIX is disallowing new connections.
%PIX-3-202001: Out of address translation slots!
%PIX-3-202002: Unable to find translation for incoming IP_addr.
%PIX-3-202002: Unable to find translation for SRC=IP_addr DEST=IP_addr IP octet inside|outside.
%PIX-3-202003: Could not build translation for IP_addr.
%PIX-3-202004: Could not build portmap translation for IP_addr.
%PIX-3-203001: ESP Error: No Key SPI hex SRC IP_addr DEST IP_addr
%PIX-3-208005: (chars:dec) pix clear return dec
%PIX-3-304003: URL Server IP_addr timed out URL string
%PIX-3-304004: URL Server IP_addr request failed URL chars
%PIX-3-304006: URL Server IP_addr not responding, trying IP_addr
%PIX-3-304007: URL Server IP_addr not responding, ENTERING ALLOW mode
%PIX-3-304008: Leaving ALLOW mode, URL Server IP_addr
%PIX-3-305005: No translation group found for protocol

Warning Messages, Severity 4

Currently, PIX Firewall does not generate severity 4, warning, Syslog messages.

Notification Messages, Severity 5

The following messages appear at severity 5, notifications:

%PIX-5-109012: Authen Session End: user 'user', sid session_num, elapsed num_seconds seconds
%PIX-5-111001: Begin configuration: chars writing to chars
%PIX-5-111002: Begin configuration: source reading from device
%PIX-5-111003: chars erase configuration
%PIX-5-111004: chars end configuration: FAILED|OK
%PIX-5-111005: chars end configuration: OK
%PIX-5-111006: Console login from chars at chars
%PIX-5-111007: Begin configuration: chars reading from chars.
%PIX-5-111008: User 'chars' executed the 'chars' command.
%PIX-5-199001: PIX reload command executed from IP_addr.
%PIX-5-304002: Access denied URL chars SRC IP_addr DEST IP_addr: chars

Fig. 3b

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Informational Messages, Severity 6

The following messages appear at severity 6, informational:

%PDX-6-109001: Auth start for user 'chars' from IP_addr/ port to IP_addr/port
%PDX-6-109002: Auth from IP_addr/pxoi to IP_addr/ port failed (server IP_addr failed)
%PIX-6-109003: Auth from IP_addr/port to IP_addr failed (server IP_addr failed)
%PIX-6-109004: Authentication succeeded for user 'chars' from IP_addr/port to IP_addr/port.
%PDX-6-109005: Authentication failed for user 'chars' from IP_addr/port to IP_addr/port.
%PDX-6-109007: Authorization permitted for user 'chars' from IP_addr/ port to IP_addr/ port.
%PIX-6-109008: Authorization denied for user 'chars' from IP_addr/port to IP_addr/port.
%PIX-6-302003: Built H245 connection for faddr IP_addr laddr IP_addr/ port
%PIX-6-302004: Preallocate H323 UDP backconnection for faddr IP_addr to laddr IP_addr/port
%PIX-6-302005: Built UDP connection for faddr IP_addr/port gaddr IP_addr/port laddr IP_addr/ port
%PIX-6-302006: Teardown UDP connection for faddr IP_addr/port gaddr IP_addr/ port laddr IP_addr/port
duration time bytes dec (chars)
%PIX-6-303009: Rebuilt TCP connection %d for faddr IP_addr/ port gaddr IP_addr/ port laddr IP_addr/ port
%PIX-6-303002: IP_addr retrieved IP_addr:chars
%PIX-6-304001: IP_addr accessed IP_addr:chars.
%PIX-6-305001: Portmapped translation built for gaddr IP_addr/port laddr IP_addr/pon (chars)
%PIX-6-305002: Translation built for gaddr IP_addr to IP_addr
%PIX-6-305003: Teardown translation for IP_addr (IP_addr)
%PIX-6-305004: Teardown portmap translation for global IP_addr/port local IP_addr/ port
%PDX-6-305007: Orphan IP IP_addr on interface dec
%PDX-6-307001: Denied Telnet login session from IP_addr.
%PDX-6-307002: Permitted Telnet login session from IP_addr.
%PIX-6-307003: Telnet login session failed from IP_addr (3 attempts).
%PIX-6-308001: PIX console enable password incorrect for 3 tries from IP_addr.
%PIX-6-309001: Denied manager connection from IP_addr.
%PIX-6-309002: Permitted manager connection from IP_addr.

Debugging Messages, Severity 7

The following messages appear at severity 7, debugging:

%PIX-7-106011: Deny self route chars
%PDX-7-304005: URL Server IP_addr request pending URL chars
%PIX-7-308006: type translation creation failed for protocol
%PIX-7-701001: alloc_user() out of Top_user objects
%PIX-7-708001: (chars) Rep Cl ioctl (chars) return chars
%PIX-7-709002: (chars) Rep no replication chars
%PIX-7-709006: (chars) End Configuration Replication (STD)

Fig. 3c

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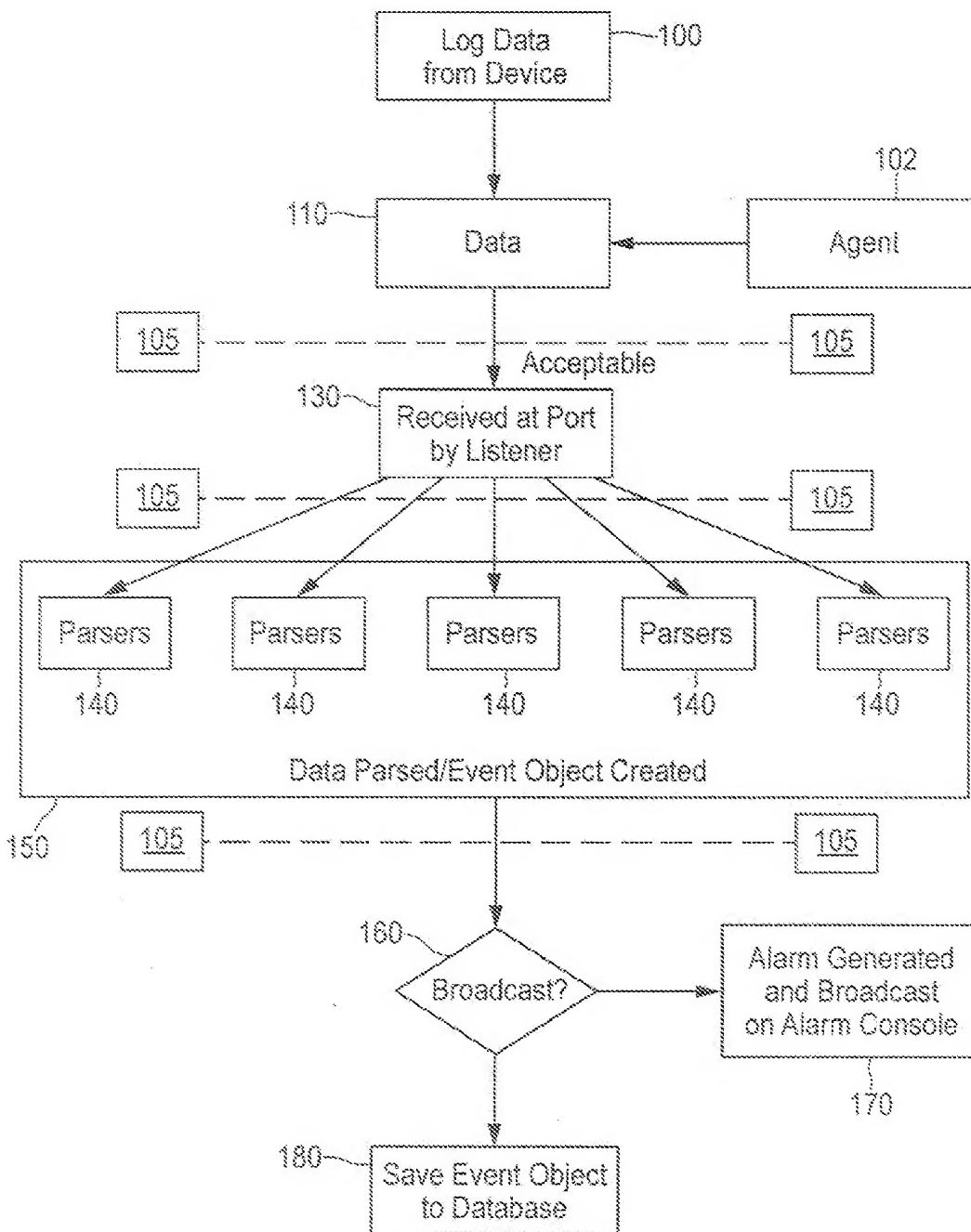


Fig. 4

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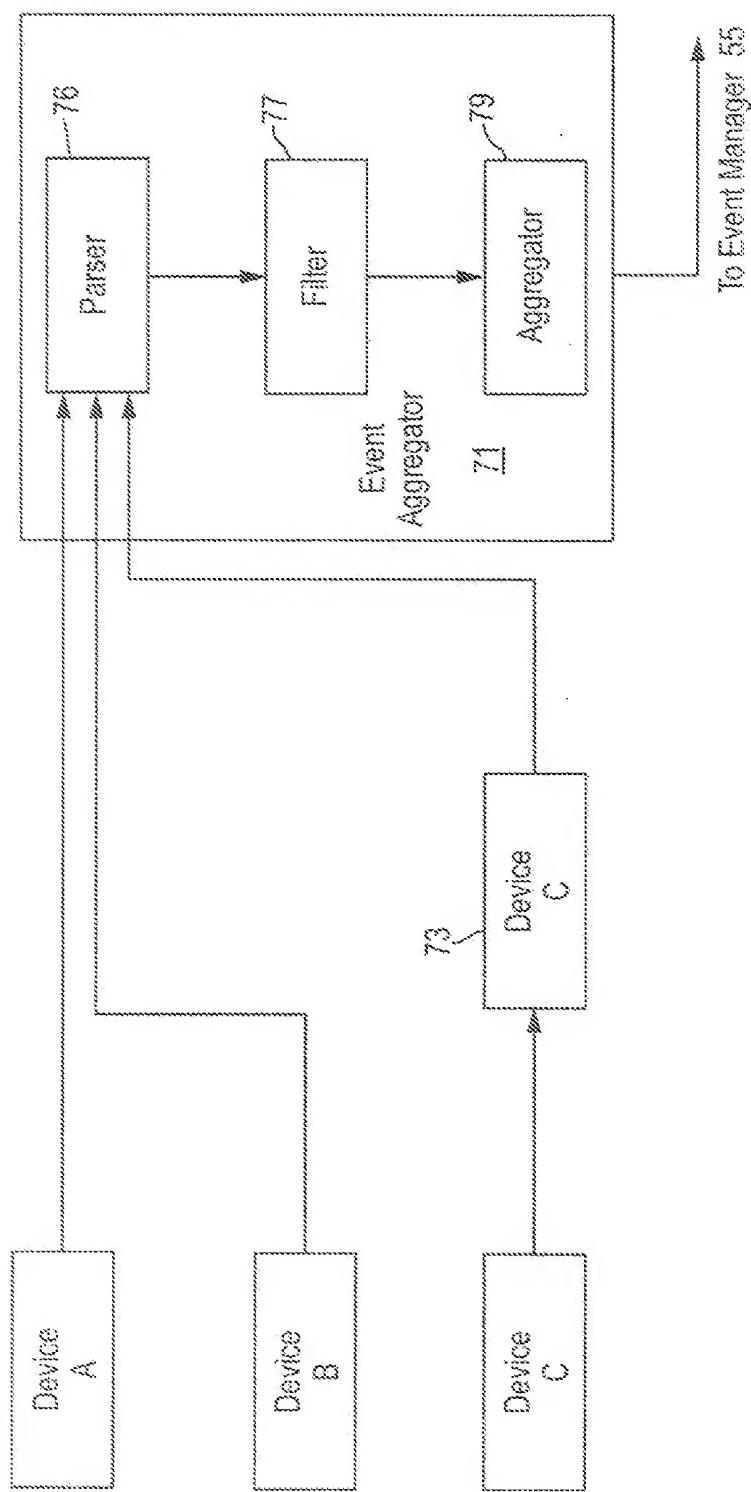


Fig. 5

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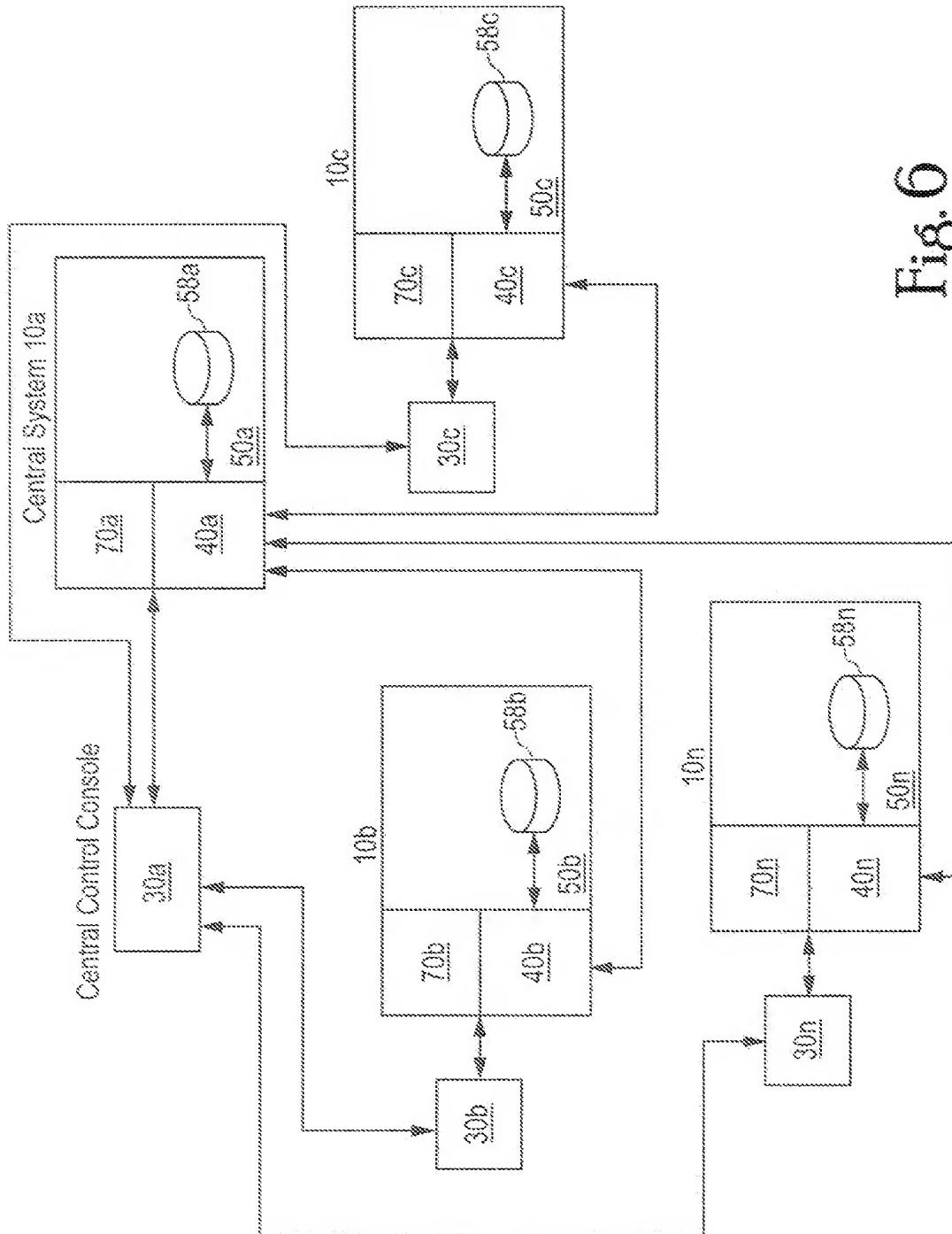


Fig. 6

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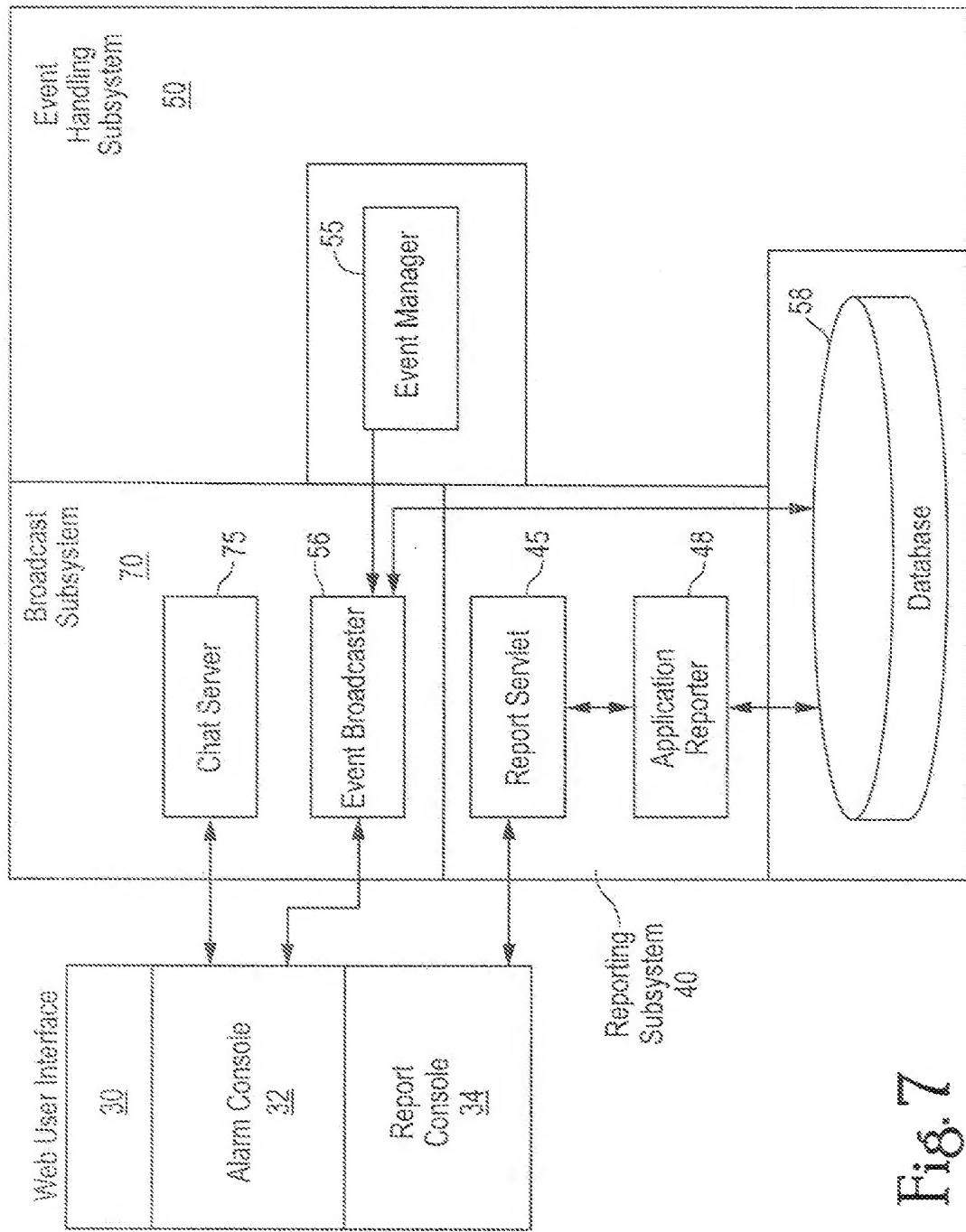


Fig. 7

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The image displays a detailed network monitoring interface with multiple sections:

- Header:** "Monitoring" and "Last Update: 10:00 AM EST 2023".
- Left Sidebar:** "Network Status" (green), "Last Update: 10:00 AM EST 2023", and a "Logout" button.
- Top Left Dashboard:** "Network Operations Center" (red). It includes a "Network Status" card with "Status: Critical" and a "Network Health" card with "Health Score: 75%".
- Top Right Dashboard:** "Network Performance" (blue). It includes a "Network Latency" card with "Latency: 10ms" and a "Network Throughput" card with "Throughput: 950Mbps".
- Middle Left Section:** "Network Devices" table with columns: Name, IP Address, Model, and Status. It lists three devices: "Cisco Router R1", "Cisco Switch S1", and "Cisco Firewall F1".
- Middle Right Section:** "Network Security" table with columns: Type, IP Address, Port, and Status. It lists four security components: "Cisco ASA 5505", "Cisco Firepower 1100", "Cisco IPS 3000", and "Cisco WAF 1000".
- Bottom Left Section:** "Network Logs" table with columns: Log ID, Log Type, Log Message, and Log Date. It lists several log entries from "cisco.log" and "syslog.log".
- Bottom Right Section:** "Network Configuration" table with columns: Config ID, Config Type, Config Value, and Config Date. It lists configuration items for "cisco_r1", "cisco_s1", and "cisco_f1".
- Bottom Center:** "Network Metrics" table with columns: Metric ID, Metric Type, Metric Value, and Metric Date. It lists metrics for "CPU Usage", "Memory Usage", "Disk Space", and "Bandwidth Utilization".
- Bottom Right:** "Network Compliance" section with a "Compliance Audit Report" button.

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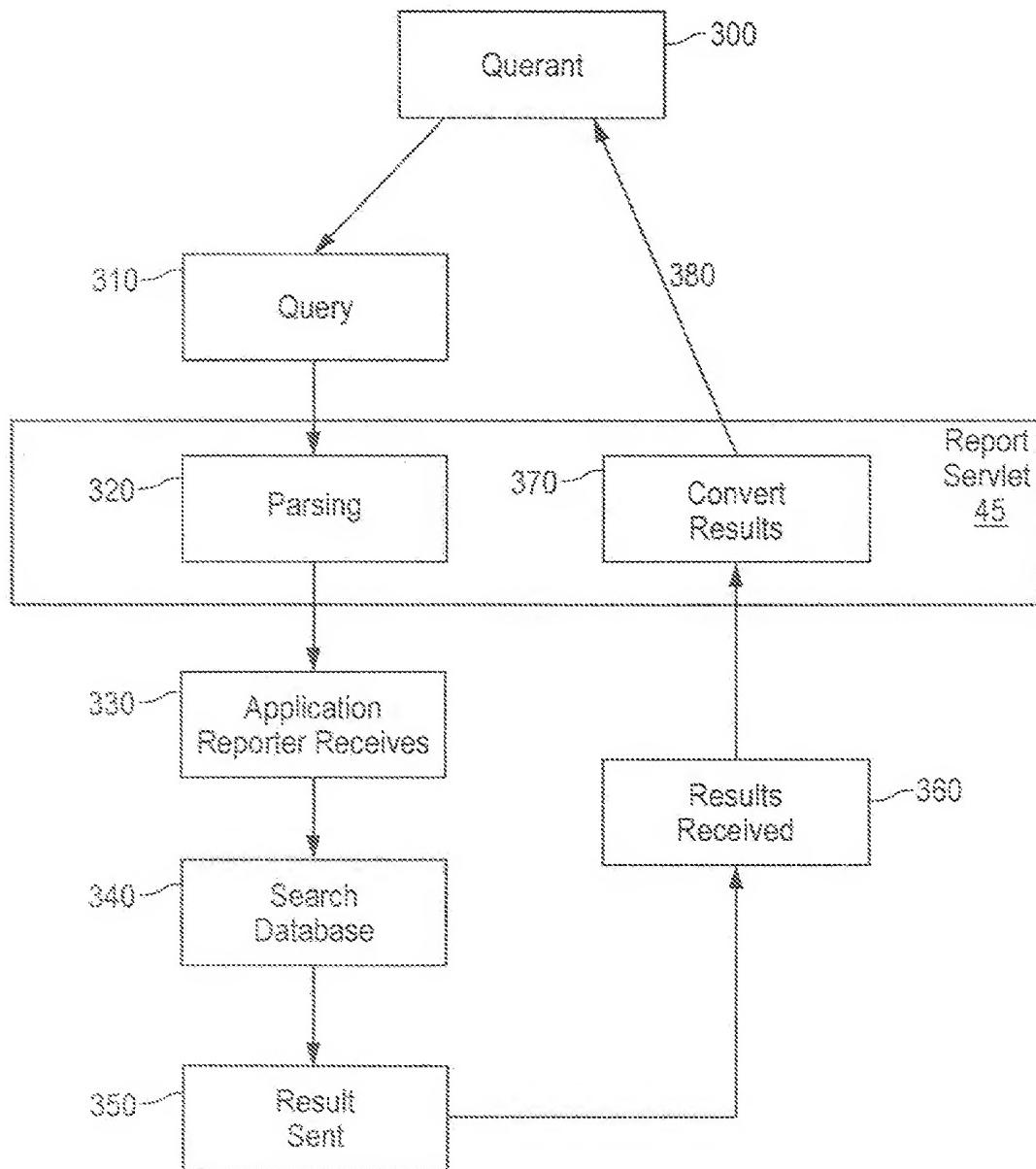


Fig. 9

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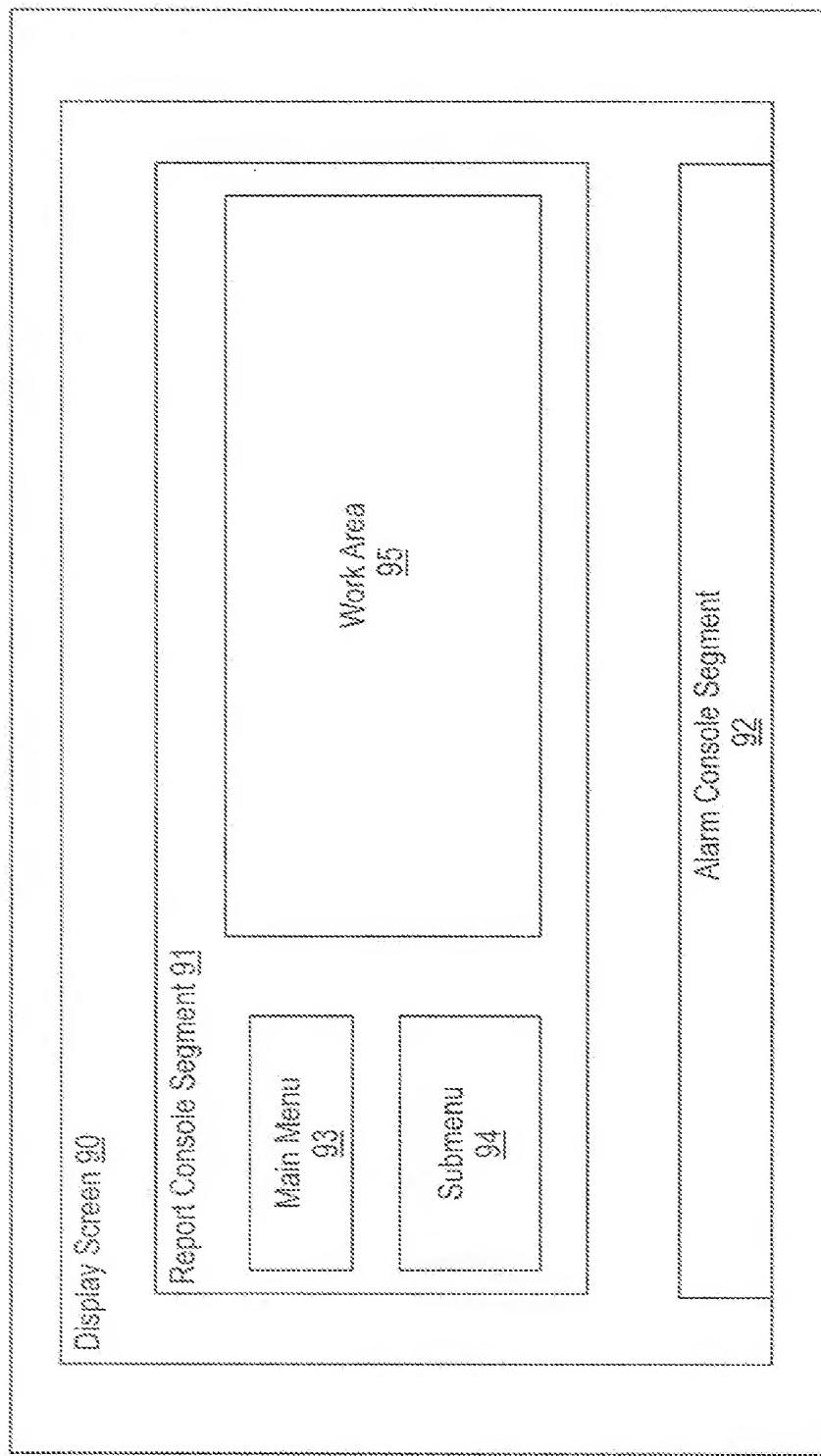


Fig. 10